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Title: **JP2000334474A2: METHOD FOR REMOVING PHOSPHORUS FROM WATER**

Derwent Title: A phosphorous removal method for purifying waste water, involves precipitating and isolating phosphate and ammonia contained in water as an insoluble magnesium-phosphate-ammonium complex [\[Derwent Record\]](#)

Country: JP Japan

Kind: A2 Document Laid open to Public inspection

Inventor: SHIBATA MASAHIRO;
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Assignee: KURITA WATER IND LTD
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Published / Filed: 2000-12-05 / 1999-05-26

Application Number: JP1999000146818

IPC Code: Advanced: C02F 1/58;
Core: more...
IPC-7: C02F 1/58;

Priority Number: 1999-05-26 JP1999000146818

Abstract: PROBLEM TO BE SOLVED: To recover MAP and to obtain treated water having high water quality by efficiently removing phosphorus from a waste liquid such as a separated dehydrated liquid from a sludge wherein phosphate ions, ammoniacal nitrogen and calcium ions coexist by utilizing the MAP method (magnesium ammonium phosphate) and the HA(hydroxyapatite) crystallizing method.
SOLUTION: Waste water containing phosphate ions, ammoniacal nitrogen and calcium ions is passed upwardly through a reaction tower 1 and MAP is formed as an insoluble substance from the phosphorus ions in this waste water and separated in the presence of a magnesium compound. A mixed fluidized bed of MAP and HA particles are formed in this reaction tower 1.
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Family: None

Other Abstract Info: CHEMABS 134(02)021039V CHEMABS 134(02)021039V DERABS C2001-142151 DERABS C2001-142151



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